Skyscraper Is Becoming More Like a Human Being

Something About Kearns Building

Tribune representative were looking over the work and commenting upon the splendid building, the builder said: 'You often hear it said that an engineer learns to love his engine and a captain his ship, but did you ever think how one who designs or erects a building watches its progress and learns to love it more and more as it grows under his care, just as a mother watches and cares for her child, for in many respects it is like a child. It grows up day by day under someone's direction. In its early days it is easy to change its shape or character but after a while it is difficult, if not impossible, to do so. It is the same way with the child. "At first a building is watched with interest as the work progresses. After "At first a building is watched with interest as the work progresses. After it is completed it becomes less interesting until it grows old and the space is wanted for a new and modern building, when it is removed or destroyed, no matter how successful it has been in the past. Just as the child is watched and admired, but after many long years of hard and faithful work, the poor, old man is told that a younger one is to take his place and he is removed.

moved.

"In its construction the modern building is becoming more like a human being as new ideas are being carried out. The steel beams and columns ried out. The steel beams and columns are its bones, the rods and wires its muscles and cords, the brick and terra cotta coverings its skin and the windows its eyes. Down in the basement the engine throbs away stroke after stroke, forcing steam and water throughout to heat and cleanse the building, just as our hearts do in our bodies, and the great fans drawing in the pure air and sending it through pipes to the different rooms correspond to our lungs and do practically the same work. The electric wires are the nerves connecting with the main office which corelectric wires are the herves connecting with the main office which correspond to the brain, from which the entire system is controlled and governed. The great quantity of coal used in the furnace is the food which provides the power to keep all things moving.

Objects of Vision

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Pireproof Construction.

Previous to the beginning of the nineteenth century little attention had been given to making buildings fire-proof. Some attempts had been made in public buildings but they were crude and consisted in most cases of brick walls supporting brick arches which formed the floors and roof similar to a large vault. It was early in the nineteenth century when a slight improvement was made by supporting these floors on cast iron beams resting on the brick walls. Another improvement was made and these beams were supported on cast iron columns making it possible to form larger rooms. As long as buildings were only two or three stories high, this was all that was necessary, but as ground values increased in our large cities and elevators were introduced architects and engineers looked for a method that would allow of higher buildings.

Up to the time of the great Chicago fire, fireproofing iron columns or girders, except in a few cases was not con-

Up to the time of the great Chicago fire, fireproofing iron columns or girders, except in a few cases, was not considered necessary. But this fire proved to all who were interested that although iron would not burn, it would, when heated, bend and buckle allowing walls and floors to fall.

In the year 1883, Mr. W. L. B. Jen-aey, a Chicago architect, first used the present skeleton construction in the Home Insurance company's building. Previous to this, it was the custom to carry the interior floor loads on cast iron columns, these columns resting upon each other at each floor and being bolted together, the outside walls carrying the outer part of floors. In the above building, the windows were re-quired to be very wide; this reduced the size and strength of the piers and it was necessary to put columns in the piers to carry the floor load. It was then found that columns a hundred feet high or over built into self-supporting brick walls, caused trouble as the brick would settle several inches and the col-umns would not. Another change was made and these columns were arranged o carry not only the floors but by put ting iron beams at each floor to carry the walls and the settlement was dis-tributed. This is practically the condi-tion of our present system of skeleton construction as used in the Kearns construction as used in the Kearns building and the Hotel Utah, now being

First Rolled Iron Beams.

The first rolled iron beams were used in the United States about the year 1850, cast iron beams being used before. It was not until the year 1885 that steel beams were used, so that the change from the old-fashioned brick arches resting on the brick walls to the use of steel beams in skeleton construc-

Why Cement Is Used.

Slaked lime with enough extra water to form a paste and an admixture of sand to prevent shrinkare and drying constitutes as everyone knows the lime mortar which has been used since ancient times in laying up all brick and stone mason.

Carried away, there would be 50 pounds of steel for every man, woman and child in Salt Lake City and there would still be left a big pile not touched. This is what the framework of this big steel doll is composed of.

Dressing Steel Doll mortar which has been used since ancient times in laying up all brick and stone masonry. The weak points of lime mortar are that the absorption of carbon dioxide goes on very slowly and cannot proceed at all under water. These deficiences are responsible for the enormous consumption of cement as it has been found in tearing down very thick walls of considerable age that the mortar in the interior was still unhardened, the carbon dioxide not having been able to penetrate to the ining been able to penetrate to the in-terior. Now no foundation wall is laid terior. Now no foundation wall is laid with lime mortar, cement mortar being used. During the last twenty years the use of cement has attained a marvelous growth, surpassed only by coal, steel and iron and keeping close pace

used for structural or decorative work and which, owing to size or form cannot be moulded by machinery, but have to be shaped by hand. The name terra cotta has, however, also been applied to many burned clay busts, statuettes and even vases made by the ancients, notably the Greeks, which, however, are to be classed as earthenware pottery. Terra cotta is made from a mixture of clays of refractory or semi-refractory character, they being used because of their burning qualities and resistance to heat in burning. It is usually pressed by hand in plaster moulds but complicated shapes like those on the kearns building have to be modeled free hand. Great care is necessary in dryhand. Great care is necessary in dry-ing and burning the ware in order to prevent cracking and warping and Add to all this the miles of teletion as now took place in less than prevent cracking and warping and Add to all this the miles of teleseventy-five years. Steel construction is large designs, like those on the Kearns graph, telephone and electric wires and

Now it must be dressed. The outer covering, the skin of terra cotta and brick must be put on. Each piece of terra cotta which makes the front skin of the building has been made by hand. Each piece was made in a spe-cial mould and is numbered for its particular place. Every scroll, every particular place. Every scroll, every bracket, every ornament was especially designed for this building, hence it sets a fashion of its own that cannot be duplicated. This is the front.

On the side and end walls brick will furnish the skin. These brick are Utah made and burned in the largest brick kiln in the world. One million six hundred the second state of the second second

velous growth, surpassed only by coal, steel and iron and keeping close pace with these.

About Terra Cotta.

This term, terra cotta, as now commonly used includes those clay products used for structural or decorative work length and were the bricks placed end to add which coving to size or form can be seed for the world. One million six hundred thousand brick will be used—this is 1000 wagon loads. Were these wagons started from the kilns of the Salt Lake Pressed Brick company, who furnish the brick, there would be a procession of wagons and horses six miles in the world. One million six hundred thousand brick will be used—this is 1000 wagon loads. Were these wagons started from the kilns of the Salt Lake Pressed Brick company.

Of the Burnarde of people who tratrees Main's treet every day and what most lifediratily y greater and the reserved that and a state of the control of the control of the state of the control of the state of the control of the state of the control of the c

loval to Uncle Sam because we import hops-for, after all, it is merely to give the people of his country better beer as a consequence.

Then, too, the brewers who make IMPERIAL BEER are Germans who learned the fine art of the braumeister in their native land, famed for its healthy beer and hardy race of people. Our own springs in the mountains near our brewery, furnishing pure spring water, is but another answer to the question we ask above-

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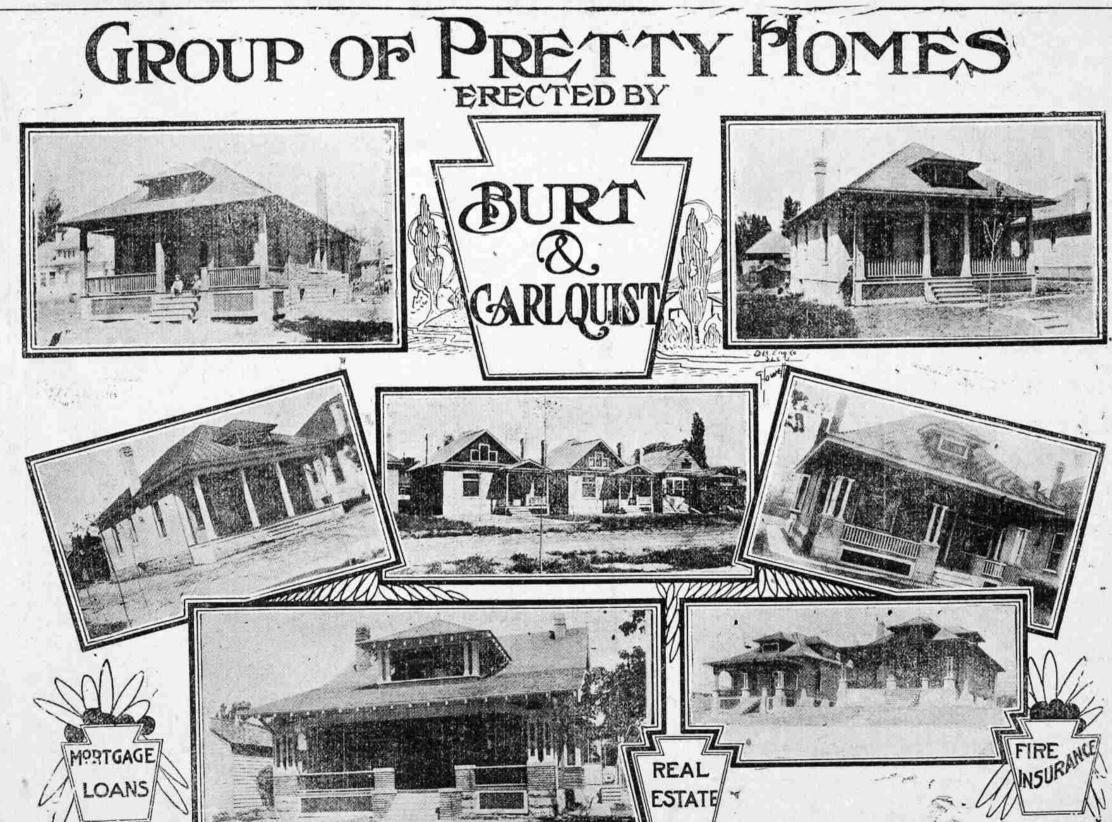
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The Home as a place of residence.
2—The Home as an investment. 2—The Home as an investment. We wish to impress this one important fact upon all intending home builders: That it is not enough merely to buy real estate, you must BUY IT IN THE RIGHT PLACE, and we say that the right place is in the well established sections of the city.

We believe that we have one of the best equipped Home Building organizations in the city, and we say without fear of contradiction that a Home built by our construction department, under our personal supervision, is a der our personal supervision, is a well built, modern Home.

See Us if You Want Business Property, Warehouse Property, Trackage, Homes or Homesites

Remember, if you have a va-cant lot and want to improve it, we will build for you.

This group of Handsome Bungalows and Cottages built in the best residential sections of the city, will give the reader a better idea of the class of houses we are building than a word picture could possibly do. For a number of weeks we have been telling the citizens of Salt Lake, through the columns of the daily papers what we are doing in the way of Home Building, under our Easy Home Building Plan. This week we thought it proper to show them through the same mediums what we are doing, in order that they might see for themselves.

All of the pretty homes shown above were designed by our architect, according to the ideas of the purchasers, (without cost All of the pretty homes shown above were designed by our architect, according to the ideas of the purchasers, (without cost them), and were erected by our construction department under our personal supervision, which means well-built, modern, convenient, classy homes; built to suit the purchaser.

We now have under course of construction more than 20 of these pretty Cottages and Bungalows, all being built under our Easy Home Building Plan, which to be brief, simply means: If you own or partly own the lot or make a small cash payment we will build the home—Not another dollar need be paid until it is ready to move into—t≝en you begin to pay for your house the same money you formerly used to pay your rent with—Why pay rent?

It will pay you to investigate and we will be pleased to explain BURT & CARLOUIST, Third Floor Felt Building, Opposite Postoffice. Phones 350